

RAW SEQUENCE LISTING

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Application Serial Number: 10/506,954
Source: Pg 110
Date Processed by STIC: 11/21/05

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PCT

RAW SEQUENCE LISTING

DATE: 11/21/2005

PATENT APPLICATION: US/10/506,954

TIME: 15:42:19

Input Set : A:\0256.210US-sequence.txt

Output Set: N:\CRF4\11212005\J506954.raw

```

3 <110> APPLICANT: Maxygen ApS
5 <120> TITLE OF INVENTION: Interferon beta-like molecules for treatment of stroke
7 <130> FILE REFERENCE: 0256.210US - INFB for stroke
9 <140> CURRENT APPLICATION NUMBER: 10/506,954
C--> 10 <141> CURRENT FILING DATE: 2004-09-08
12 <160> NUMBER OF SEQ ID NOS: 51
14 <170> SOFTWARE: PatentIn Ver. 2.1
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 840
18 <212> TYPE: DNA
19 <213> ORGANISM: Artificial Sequence
21 <220> FEATURE:
22 <223> OTHER INFORMATION: Description of Artificial Sequence: Expression
23     cassette for expression of IFNB in mammalian
24     and insect cells
26 <400> SEQUENCE: 1
27 acattctaac tgcaaccttt cgaagccttt gctctggcac aacaggtagt aggcgacact 60
28 gttcgtgttg tcaacatgac caacaagtgt ctctccaaa ttgctctcct gttgtgcttc 120
29 tccactacag ctctttccat gagctacaac ttgcttggat tcctacaaag aagcagcaat 180
30 tttcagtgtc agaagtcct gtggcaattg aatgggaggc ttgaatactg cctcaaggac 240
31 aggatgaact ttgacatccc tgaggagatt aagcagctgc agcagttcca gaaggaggac 300
32 gccgcattga ccatctatga gatgctccag aacatctttg ctattttcag acaagattca 360
33 tctagcactg gctggaatga gactattgtt gagaacctcc tggctaattg ctatcatcag 420
34 ataaaccatc tgaagacagt cctggaagaa aaactggaga aagaagattt caccagggga 480
35 aaactcatga gcagtctgca cctgaaaaga tattatggga ggattctgca ttacctgaag 540
36 gccaaggagt acagtcactg tgcctggacc atagtcagag tggaaatcct aaggaacttt 600
37 tacttcatta acagacttac aggttacctc cgaaactgaa gatctcctag cctgtgcctc 660
38 tgggactgga caattgcttc aagcattctt caaccagcag atgctgttta agtgactgat 720
39 ggctaatagta ctgcatatga aaggacacta gaagattttg aaatttttat taaattatga 780
40 gttattttta tttatttaaa ttttattttg gaaaataaat tatttttggt gcaaaagtca 840
43 <210> SEQ ID NO: 2
44 <211> LENGTH: 166
45 <212> TYPE: PRT
46 <213> ORGANISM: Homo sapiens
48 <400> SEQUENCE: 2
49 Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln
50 1 5 10 15
52 Cys Gln Lys Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu
53 20 25 30
55 Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln
56 35 40 45
58 Gln Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln
59 50 55 60

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61 Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Asn
62 65          70          75          80
64 Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn
65          85          90          95
67 His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe Thr
68          100          105          110
70 Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg
71          115          120          125
73 Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr
74          130          135          140
76 Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu
77 145          150          155          160
79 Thr Gly Tyr Leu Arg Asn
80          165

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83 <210> SEQ ID NO: 3

84 <211> LENGTH: 166

85 <212> TYPE: PRT

86 <213> ORGANISM: Artificial Sequence

88 <220> FEATURE:

89 <223> OTHER INFORMATION: Description of Artificial Sequence: IFNB variant

91 <400> SEQUENCE: 3

```

92 Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln
93 1          5          10          15
95 Ser Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu
96          20          25          30
98 Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln
99          35          40          45
101 Asn Phe Thr Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln
102          50          55          60
104 Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Asn
105 65          70          75          80
107 Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn
108          85          90          95
110 His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Phe Asn Thr
111          100          105          110
113 Thr Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg
114          115          120          125
116 Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr
117          130          135          140
119 Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu
120 145          150          155          160
122 Thr Gly Tyr Leu Arg Asn
123          165

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126 <210> SEQ ID NO: 4

127 <211> LENGTH: 70

128 <212> TYPE: DNA

129 <213> ORGANISM: Artificial Sequence

131 <220> FEATURE:

132 <223> OTHER INFORMATION: Description of Artificial Sequence: primer

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134 <400> SEQUENCE: 4
135 ggctagcggtt taaacttaag cttcgccacc atgaccaaca agtgcctgct ccagatcgcc 60
136 ctgctcctgt 70
139 <210> SEQ ID NO: 5
140 <211> LENGTH: 70
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
147 <400> SEQUENCE: 5
148 acaacctgct cggcttcctg cagaggagtt cgaacttcca gtgccagaag ctctgtggc 60
149 agctgaacgg 70
152 <210> SEQ ID NO: 6
153 <211> LENGTH: 70
154 <212> TYPE: DNA
155 <213> ORGANISM: Artificial Sequence
157 <220> FEATURE:
158 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
160 <400> SEQUENCE: 6
161 gaacttcgac atccccgagg aaatcaagca gctgcagcag ttccagaagg aggacgccgc 60
162 tctgaccatc 70
165 <210> SEQ ID NO: 7
166 <211> LENGTH: 70
167 <212> TYPE: DNA
168 <213> ORGANISM: Artificial Sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
173 <400> SEQUENCE: 7
174 ttccgccagg actccagctc caccggttgg aacgagacca tcgtggagaa cctgctggcc 60
175 aacgtgtacc 70
178 <210> SEQ ID NO: 8
179 <211> LENGTH: 70
180 <212> TYPE: DNA
181 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
186 <400> SEQUENCE: 8
187 aggagaagct ggagaaggag gacttcaccc gcggcaagct gatgagctcc ctgcacctga 60
188 agcgctacta 70
191 <210> SEQ ID NO: 9
192 <211> LENGTH: 70
193 <212> TYPE: DNA
194 <213> ORGANISM: Artificial Sequence
196 <220> FEATURE:
197 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
199 <400> SEQUENCE: 9
200 ggagtacagc cactgcgcct ggaccatcgt acgcgtggag atcctgcgca acttctactt 60
201 catcaaccgc 70
204 <210> SEQ ID NO: 10

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205 <211> LENGTH: 70
206 <212> TYPE: DNA
207 <213> ORGANISM: Artificial Sequence
209 <220> FEATURE:
210 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
212 <400> SEQUENCE: 10
213 caccacactg gactagtgga tccttatcag ttgcgcaggt agccggtcag gcggttgatg 60
214 aagtagaagt 70
217 <210> SEQ ID NO: 11
218 <211> LENGTH: 70
219 <212> TYPE: DNA
220 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
225 <400> SEQUENCE: 11
226 aggcgcagtg gctgtactcc ttggccttca ggtagtgcag gatgcggcca tagtagcgct 60
227 tcaggtgcag 70
230 <210> SEQ ID NO: 12
231 <211> LENGTH: 70
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
238 <400> SEQUENCE: 12
239 ctcttctctc agcttctcct ccagcacggt cttcaggtgg ttgatctggt ggtacacggt 60
240 ggccagcagg 70
243 <210> SEQ ID NO: 13
244 <211> LENGTH: 70
245 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
251 <400> SEQUENCE: 13
252 gagctggagt cctggcggaa gatggcgaag atgttctgca gcatctcgta gatggtcaga 60
253 gcggcgtcct 70
256 <210> SEQ ID NO: 14
257 <211> LENGTH: 70
258 <212> TYPE: DNA
259 <213> ORGANISM: Artificial Sequence
261 <220> FEATURE:
262 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
264 <400> SEQUENCE: 14
265 cctcggggat gtcgaagttc atcctgtcct tcaggcagta ctccaggcgc ccgttcagct 60
266 gccacaggag 70
269 <210> SEQ ID NO: 15
270 <211> LENGTH: 70
271 <212> TYPE: DNA
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:

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275 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
277 <400> SEQUENCE: 15
278 caggaagccg agcaggttgt agctcatcga tagggccgtg gtgctgaagc acaggagcag 60
279 ggcgatctgg 70
282 <210> SEQ ID NO: 16
283 <211> LENGTH: 70
284 <212> TYPE: DNA
285 <213> ORGANISM: Artificial Sequence
287 <220> FEATURE:
288 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
290 <400> SEQUENCE: 16
291 ctgctccaga tcgccctgct cctgtgcttc agcaccacgg ccctatcgat gaagcaccag 60
292 caccagcatc 70
295 <210> SEQ ID NO: 17
296 <211> LENGTH: 70
297 <212> TYPE: DNA
298 <213> ORGANISM: Artificial Sequence
300 <220> FEATURE:
301 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
303 <400> SEQUENCE: 17
304 cactgcttac tggcttatcg aaattaatac gactcactat agggagaccc aagctggcta 60
305 gcgtttaaac 70
308 <210> SEQ ID NO: 18
309 <211> LENGTH: 70
310 <212> TYPE: DNA
311 <213> ORGANISM: Artificial Sequence
313 <220> FEATURE:
314 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
316 <400> SEQUENCE: 18
317 caggaagccg agcaggttgt agctcatctg ttggtgttga tgttggtgct gatgctgggtg 60
318 ctggtgcttc 70
321 <210> SEQ ID NO: 19
322 <211> LENGTH: 70
323 <212> TYPE: DNA
324 <213> ORGANISM: Artificial Sequence
326 <220> FEATURE:
327 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
329 <400> SEQUENCE: 19
330 agcagggcga tctggagcag gcacttggtg gtcatgggtg cgaagcttaa gtttaaaccg 60
331 tagccagctt 70
334 <210> SEQ ID NO: 20
335 <211> LENGTH: 40
336 <212> TYPE: DNA
337 <213> ORGANISM: Artificial Sequence
339 <220> FEATURE:
340 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
342 <400> SEQUENCE: 20
343 ccgtcagatc ctaggctagc ttattgcggt agtttatcac 40
346 <210> SEQ ID NO: 21

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VERIFICATION SUMMARY

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Input Set : A:\0256.210US-sequence.txt

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L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date